

### **ABSTRACT**

An antenna in a wireless mobile communication device is often sensitive to its operating environment, such that variations in other device components typically affect performance of the antenna. A floating conductor pad comprising a patch of conductive material is configured to be positioned adjacent the antenna to couple to the antenna. The floating conductor pad thereby has a dominant effect on the antenna in the operating environment. This reduces the effects of variations in the other device components on the antenna. Effective selection of the dimensions and location of the floating conductor pad can also cancel noise generated by the other device components from de-sensitizing communications circuitry in a wireless mobile communication device.